```
🔘 🌑 🌑 🌃 kafka 2.13-3.9.0 — java -Xmx1G -Xms1G -server -XX:+UseG1GC -XX:Max...
                            🔳 harmit — -zsh — 80×26
Last login: Sun May 4 14:53:53 on ttys003
                                                                                  [2025-05-04 17:54:36,937] INFO Loaded member MemberMetadata(memberId=consumer-mq
harmit@Mac ~ % sudo /usr/libexec/ApplicationFirewall/socketfilterfw --setglobals tt-data-group-1-b9797d83-633b-4129-989c-c6b9943dc806, groupInstanceId=None, clie
tate off
Password:
harmit@Mac ~ % \square
```

```
ntId=consumer-mqtt-data-group-1, clientHost=/192.168.144.42, sessionTimeoutMs=45
000, rebalanceTimeoutMs=300000, supportedProtocols=List(range)) in group mgtt-da
ta-group with generation 102. (kafka.coordinator.group.GroupMetadata$)
[2025-05-04 17:54:36,937] INFO Loaded member MemberMetadata(memberId=consumer-mg
tt-data-group-1-a8373e79-81f8-4fd0-9998-bfa692ec937b, groupInstanceId=None, clie
ntId=consumer-mqtt-data-group-1, clientHost=/192.168.144.42, sessionTimeoutMs=45
000, rebalanceTimeoutMs=300000, supportedProtocols=List(range)) in group mqtt-da
ta-group with generation 102. (kafka.coordinator.group.GroupMetadata$)
[2025-05-04 17:54:36,937] INFO Loaded member MemberMetadata(memberId=consumer-mg
tt-data-group-1-a8373e79-81f8-4fd0-9998-bfa692ec937b, groupInstanceId=None, clie
ntId=consumer-mqtt-data-group-1, clientHost=/192.168.144.42, sessionTimeoutMs=45
000, rebalanceTimeoutMs=300000, supportedProtocols=List(range)) in group mqtt-da
ta-group with generation 103. (kafka.coordinator.group.GroupMetadata$)
[2025-05-04 17:54:36,937] INFO [GroupCoordinator 0]: Loading group metadata for
mgtt-data-group with generation 104 (kafka.coordinator.group.GroupCoordinator)
[2025-05-04 17:54:36,937] INFO [GroupMetadataManager brokerId=0] Finished loadin
g offsets and group metadata from __consumer_offsets-13 in 28 milliseconds for e
poch 0, of which 17 milliseconds was spent in the scheduler. (kafka.coordinator.
group.GroupMetadataManager)
[2025-05-04 17:54:36,938] INFO [GroupMetadataManager brokerId=0] Finished loadin
g offsets and group metadata from __consumer_offsets-28 in 29 milliseconds for e
poch 0, of which 29 milliseconds was spent in the scheduler. (kafka.coordinator.
group.GroupMetadataManager)
```

kafka_2.13-3.9.0 — java -Xmx512M -Xms512M -server -XX:+UseG1GC -X... [2025-05-04 17:54:20,130] INFO zookeeper.snapshot.compression.method = CHECKED (harmit@Mac ~ % cd ~/Downloads/kafka_2.13-3.9.0

```
org.apache.zookeeper.server.persistence.SnapStream)
                                                                                  harmit@Mac kafka_2.13-3.9.0 % bin/kafka-topics.sh \
[2025-05-04 17:54:20,135] INFO Reading snapshot /tmp/zookeeper/version-2/snapsho
                                                                                  --create \
t.1ae (org.apache.zookeeper.server.persistence.FileSnap)
[2025-05-04 17:54:20,138] INFO The digest in the snapshot has digest version of
```

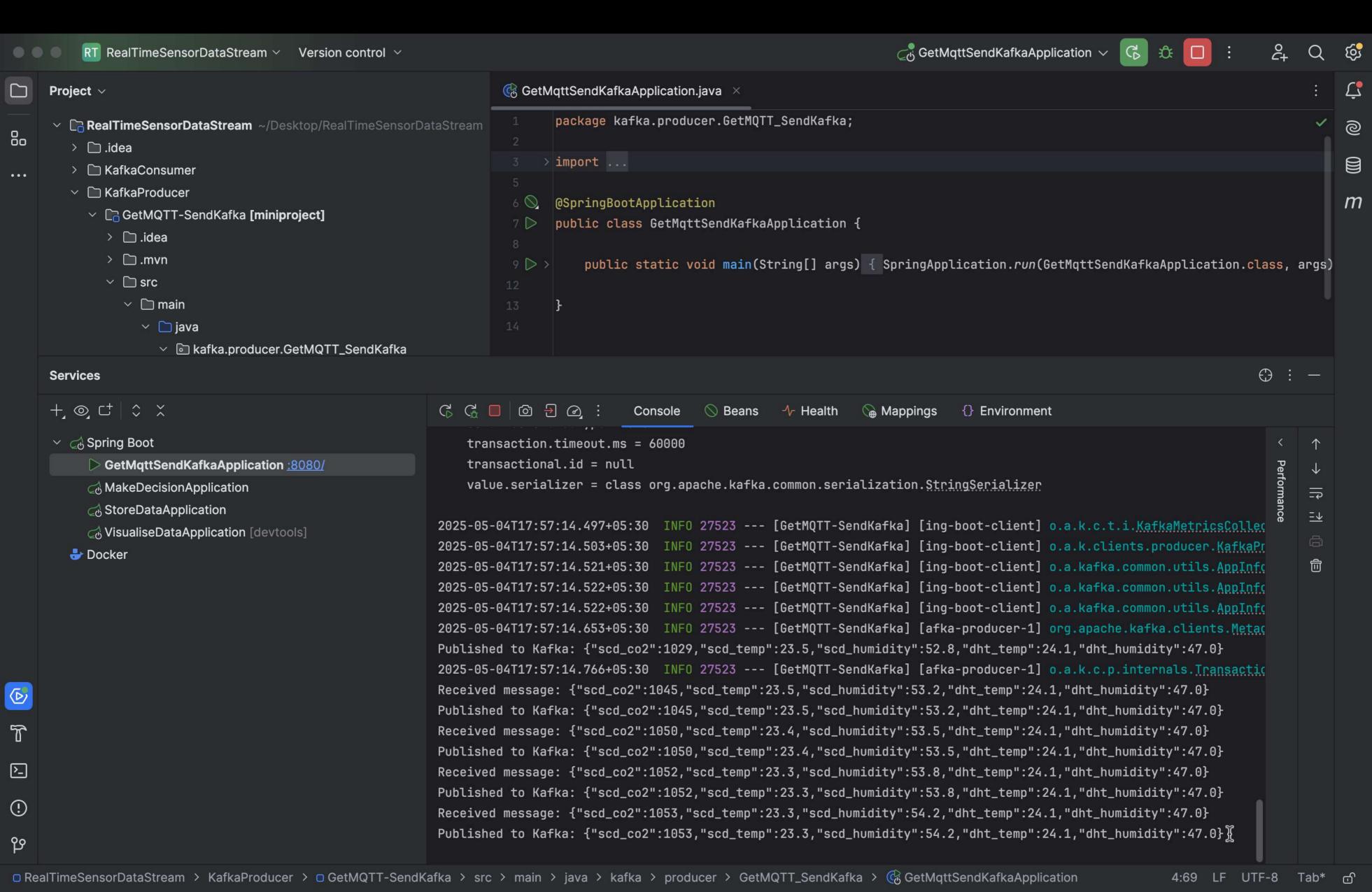
- 2, with zxid as 0x1ae, and digest value as 302347319105 (org.apache.zookeeper.se rver.DataTree) [2025-05-04 17:54:20,149] INFO ZooKeeper audit is disabled. (org.apache.zookeepe
- r.audit.ZKAuditProvider) [2025-05-04 17:54:20,149] INFO 20 txns loaded in 5 ms (org.apache.zookeeper.serv
- er.persistence.FileTxnSnapLog)
- [2025-05-04 17:54:20,149] INFO Snapshot loaded in 21 ms, highest zxid is 0x1c2, digest is 305765572428 (org.apache.zookeeper.server.ZKDatabase)
- [2025-05-04 17:54:20,149] INFO Snapshotting: 0x1c2 to /tmp/zookeeper/version-2/s napshot.1c2 (org.apache.zookeeper.server.persistence.FileTxnSnapLog)
- [2025-05-04 17:54:20,151] INFO Snapshot taken in 2 ms (org.apache.zookeeper.serv er.ZooKeeperServer)
- [2025-05-04 17:54:20,155] INFO PrepRequestProcessor (sid:0) started, reconfigEna bled=false (org.apache.zookeeper.server.PrepRequestProcessor)
- [2025-05-04 17:54:20,155] INFO zookeeper.request_throttler.shutdownTimeout = 100 00 ms (org.apache.zookeeper.server.RequestThrottler)
- [2025-05-04 17:54:20,161] INFO Using checkIntervalMs=60000 maxPerMinute=10000 ma xNeverUsedIntervalMs=0 (org.apache.zookeeper.server.ContainerManager)
- [2025-05-04 17:54:35,846] INFO Creating new log file: log.1c3 (org.apache.zookee per.server.persistence.FileTxnLog)

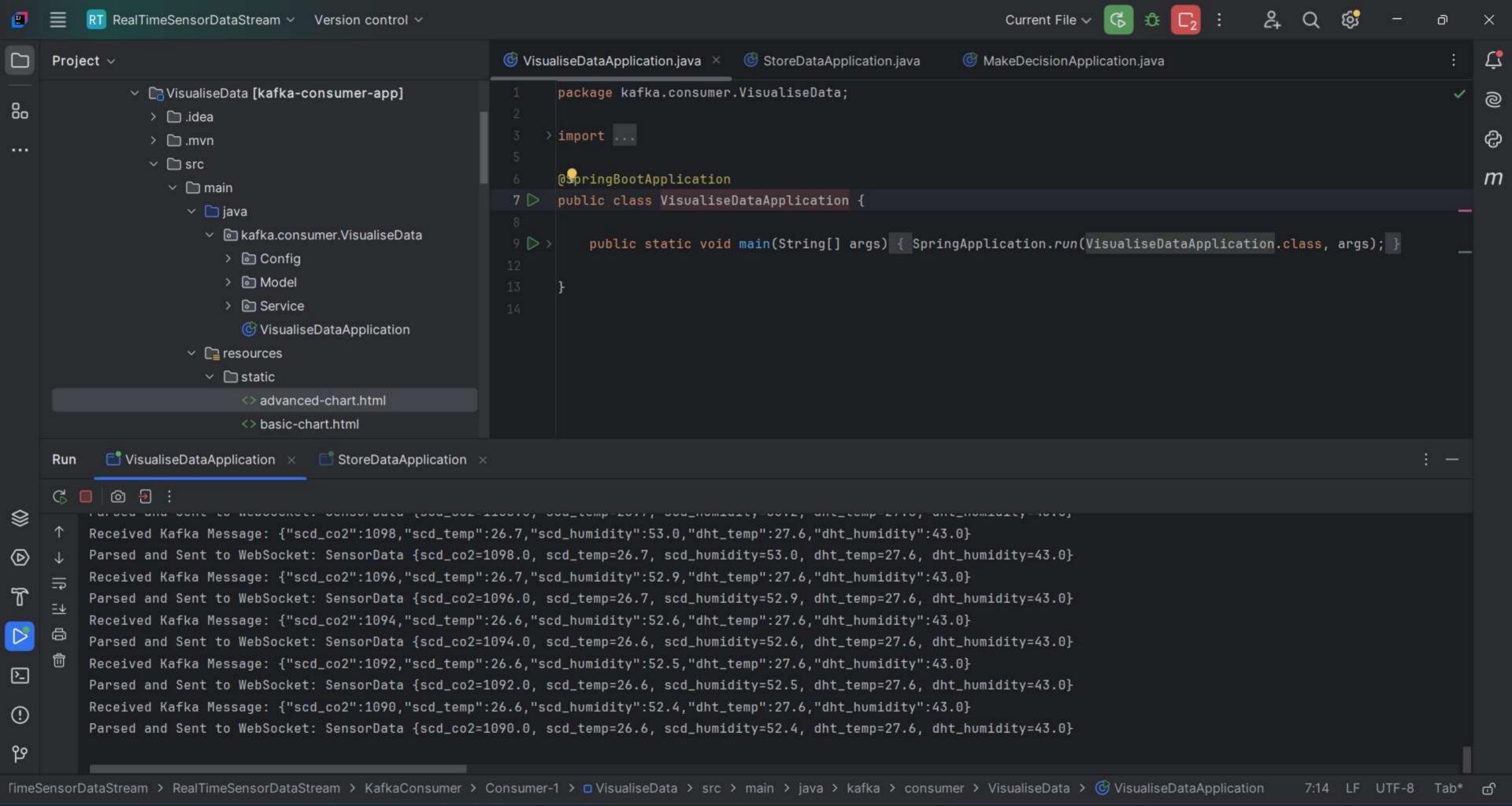
kafka 2.13-3.9.0 — -zsh — 80×26

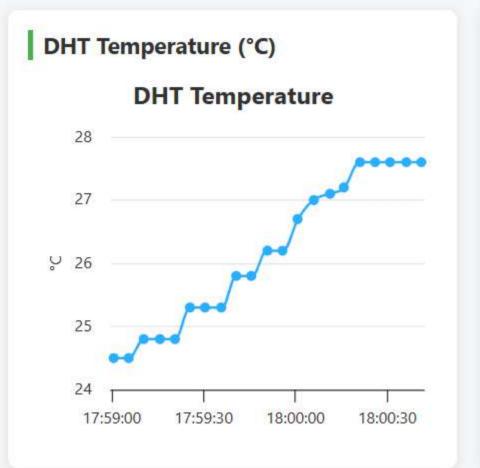
```
--topic mqtt_data_topic \
--bootstrap-server 192.168.144.205:9092 \
--partitions 1 \
[--replication-factor 3
WARNING: Due to limitations in metric names, topics with a period ('.') or under
score ('_') could collide. To avoid issues it is best to use either, but not bot
```

Error while executing topic command: Topic 'mqtt_data_topic' already exists. [2025-05-04 17:55:06,445] ERROR org.apache.kafka.common.errors.TopicExistsExcept ion: Topic 'mqtt_data_topic' already exists.

(org.apache.kafka.tools.TopicCommand) harmit@Mac kafka_2.13-3.9.0 %



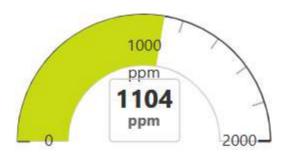






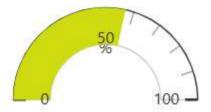


SCD CO₂ (ppm)
SCD CO₂

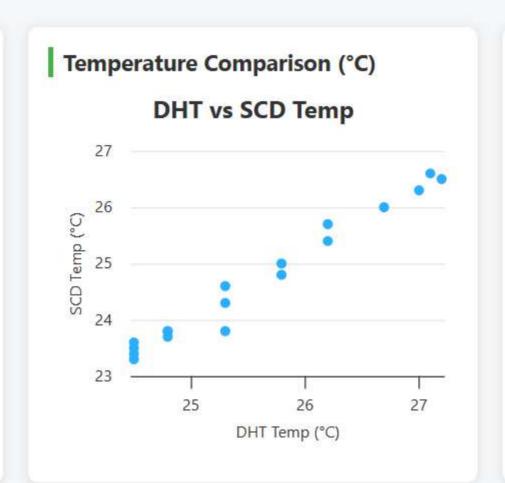


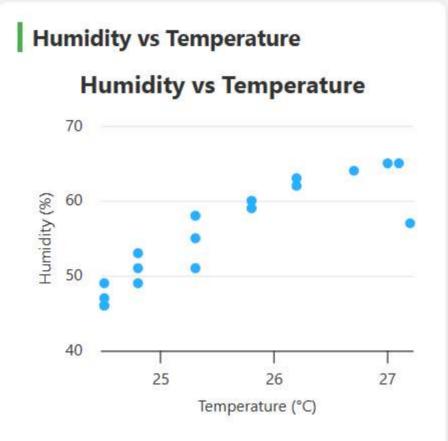
DHT Humidity Gauge (%)

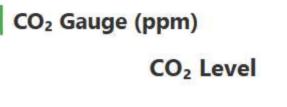
DHT Humidity

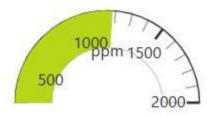


57.0 %









1181 ppm

Temp, Humidity & CO₂ Heatmap

CO2	1,053	1,053	1,054	1,300	1,480	1,506	1,560	1,567	1,566	1,535	1,515	1,458	1,381	1,335	1,282	1,246	1,189	1,181
Humidity	47	46	46	49	53	51	49	51	55	58	60	59	62	63	64	65	65	57
Temperature	24.5	24.5	24.5	24.5	24.8	24.8	24.8	25.3	25.3	25.3	25.8	25.8	26.2	26.2	26.7	27	27.1	27.2
	17:58:50	17:58:55	17:59:00	17:59:05	17:59:10	17:59:15	17:59:20	17:59:25	17:59:30	17:59:35	17:59:40	17:59:45	17:59:50	17:59:55	18:00:00	18:00:05	18:00:11	18:00:15

Time

